

The Contest JUG



NEWSLETTER OF THE
NORTHERN CALIFORNIA CONTEST CLUB
44 Toyon Terrace
Danville, CA 94526

SEPTEMBER 1987
No. 183

PRESIDENT: W6RGG
VP/CC: K4UVT
SEC/TREAS: VE2AQS
NCCC REPEATER: 147.24 (+600)

AWARDS: K6ZM
JUG EDITOR: W6SZN
DIRECTORS: KA6ING, WA6VEF, NV6Z,
W7MAP

KB CQP!!

COMING EVENTS

| | |
|--|--------------|
| North American Sprint (SSB) | September 20 |
| NCCC Meeting -- Dinner Meeting at Miguel's in Hayward | September 25 |
| 1987 California QSO Party | October 3-4 |

THE PREZ SEZ

Wow! What a picnic! Special thanks to Gary, WA6VEF, for inviting us to his home and coordinating the food, beverages, and entertainment. You will find an article by Gary on another page of this issue wherein he gives credit to the folks who helped to make the event such a success.

Our September meeting will be a dinner at Miguel's Restaurant in Hayward. Mark Friday the 25th on your calendar, and check the announcement elsewhere in this JUG for the time, menu, prices, and RSVP information.

The Sprints are here once again, along with the usual late challenge from the SCCC. Rusty, W6OAT, has done a great job rallying the teams to the fray at the last minute. I hope to have worked many of you "Sprinters" by the time you read this. It's not too soon to start planning for the February Sprints!

The Club's major effort this year, in case you didn't know, is the CALIFORNIA QSO PARTY. Last minute details are still being worked out by Gary and his merry band of coordinators. Most of the final details will be announced at the September dinner meeting, and a supply of logs, summary

sheets, and rules will be there for the taking. If you have yet to hear from your coordinator, give Gary a call.

I'm looking forward to seeing you all at Miguel's.

KB, Bob, W6RGG

FROM THE VP/CC . . .

A few more summary sheets have trickled in for WPX '87, so we have a revised club entry with a combined 42.2 Meg score. That should help us K some B!!

Some members have also sent in more summaries toward the Five Million Point Award, along with corrections to my initial pass at getting it all on my database. The condensed listing is given in this issue, with totals only given. Gary, WA6VEF, still holds on to the first award all by himself. But K6ZM and W6FSJ are hot on his heels, only a few points shy of the fabled 5Meg mark!

The BIG one is coming up on October 3-4, our own CQP! WA6VEF has been doing a great job getting it coordinated. There are still a few counties unaccounted for; if anyone can mount an effort in these, get in touch with Gary soon. This year's CQP will see quite a few scoring records broken, so let's go break 'em up good!

Several other DX contests are on tap for October, including the VK-ZL DX Contest and the Radiosporting Championships. RSGB is also sponsoring its annual 21/28 MHz events. The ARRL International EME test will be of interest to the moonbouncers in our midst.

And on October 24-25 is the CQ WW Phone. Is anybody going off on a DXpedition to some exotic clime?? For those remaining on the continent, I'll try to coordinate getting operators and stations together -- some stations will need ops, and some ops may be looking for a station. I'll keep tabs on who needs what.

73 & KB, Bob, K4UVT/6

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CQ WPX - 1987
NORTHERN CALIFORNIA CONTEST CLUB
CLUB ENTRY

TOTAL SSB 32,060,130
TOTAL CW 10,144,067

NCCC TOTAL 42,204,197

SSB SCORES

| CALL | SCORE | OPERATORS |
|-------------|------------|--|
| PJ2FR | 9,252,307 | PJ2FR, N6KT |
| 6Y4V | 6,405,750 | AI6V |
| KI6P | 5,825,328 | WA6VEF, K3EST, N6RO |
| KI6CG | 1,979,572 | KI6CG, NU6S, WA6AZP |
| K6HNZ | 1,844,208 | K6HNZ |
| WC6H | 1,625,972 | WC6H, W6REC |
| NV6Z | 1,301,580 | NV6Z, K6ZM, K4UVT, KI6EZ, AK6T, NP4IW, WB6MZQ |
| AG6D | 1,129,536 | AG6D, K6XO, N1EE, K6WJ |
| WX6M | 769,860 | WX6M |
| N6CCL | 610,155 | N6CCL, N6IYI |
| 4X/K6KLY | 555,345 | K6KLY |
| WR6R | 400,860 | WR6R |
| KS6H | 258,024 | KS6H |
| WE6G | 56,615 | WE6G |
| WZ6Z | 38,592 | WZ6Z |
| AJ6V | 4,032 | AJ6V |
| K6SIK | 2,394 | K6SIK |
| TOTAL ----- | 32,060,130 | |

CW SCORES

| CALL | SCORE | OPERATORS |
|-------------|------------|--|
| KI6P | 2,226,860 | WA6VEF |
| AI6V | 2,041,848 | AI6V, N6TR |
| AG6D | 1,463,820 | AG6D, WC6I, N1EE, W6NWS |
| WC6H | 1,337,182 | WC6H, AD6E |
| AJ6V | 1,246,840 | AJ6V |
| VE2AQS/AC6 | 868,530 | VE2AQS/W6 |
| AK6T | 436,563 | AK6T, K4UVT/6, K6ZM, KI6EZ, NB6L, NP4IW |
| N6EK | 322,772 | N6EK |
| NS6G | 162,162 | W6REC |
| WE6G | 19,838 | WE6G |
| WZ6Z | 14,352 | WZ6Z, W7IL |
| K4TKM/6 | 3,300 | K4TKM/6 |
| TOTAL ----- | 10,144,067 | |

NCCC FIVE MILLION POINT AWARD STANDINGS

| | | | |
|-----------|---------|--------|---------------|
| AD6E | 760004 | W6OAT | 465358 |
| AG6D | 1201144 | W6OSP | 113150 |
| AI6V | 2160358 | W6REC | 1848322 |
| AJ6V | 1359041 | W6RGG | 51192 |
| AK6T | 564541 | W6RJ | 106600 |
| K3EST/6 | 1949650 | W6SYL | 15840 |
| K4TKM/6 | 3300 | W6SZN | 922062 |
| K4UVT/6 | 557840 | W6UA | 49134 |
| K6CSL | 72144 | W6VG | 4556 |
| K6HIH | 169764 | W6WB | 184920 |
| K6HNZ | 1844208 | W6XX | 988083 |
| K6KLY | 185389 | W7XA | 198404 |
| K6KM | 41446 | WA6AUE | 810982 |
| K6LRN | 154058 | WA6VEF | 9792845 ***** |
| K6MBV | 13298 | WB6MZQ | 185940 |
| K6MO | 972 | WC6H | 1937186 |
| K6PU | 83985 | WC6I | 906871 |
| K6RK | 138156 | WE6G | 478556 |
| K6SIK | 474070 | WR6R | 638187 |
| K6THB | 2046823 | WW6F | 75362 |
| K6WJ | 282384 | WX6M | 1423633 |
| K6XO | 295012 | WZ6Z | 52944 |
| K6ZH | 4959129 | | |
| KD6XY | 1408 | | |
| K16CG | 1397278 | | |
| K16EZ | 728605 | | |
| KN6K | 245797 | | |
| KS6H | 361328 | | |
| N1EE | 1089532 | | |
| N6BIS | 5550 | | |
| N6BT | 258738 | | |
| N6BV | 1251055 | | |
| N6CCL | 810283 | | |
| N6EK | 959392 | | |
| N6GG | 313917 | | |
| N6JM | 83015 | | |
| N6JV | 57942 | | |
| N6KT | 988083 | | |
| N6OM | 368416 | | |
| N6QR | 171171 | | |
| N6RO | 3867266 | | |
| N6ZB | 136416 | | |
| NB6L | 396621 | | |
| NP4IW | 258700 | | |
| NU6S | 1677142 | | |
| NV6Z | 1323315 | | |
| VE2AQS/W6 | 1169181 | | |
| W6BIP | 959834 | | |
| W6BSY | 496298 | | |
| W6DPD | 11016 | | |
| W6FSJ | 4973804 | | |
| W6GO | 2854116 | | |
| W6ISQ | 382416 | | |
| W6KZJ | 19680 | | |
| W6MFZ | 50880 | | |
| W6NWS | 365955 | | |

SPRINT SCORESOut of Area

| | | |
|--------|-----|----|
| WN4KKN | 308 | 41 |
| K5GO | 312 | 38 |
| K3LR | 309 | ?? |
| KM5H | 296 | 39 |
| K5MR | 306 | 39 |
| K5RX | 331 | 43 |
| N6TU | 274 | 43 |
| K6LL | 310 | 42 |
| W0UA | 297 | 41 |
| N2IC | 320 | ?? |
| K1KI | 303 | 42 |
| N4RJ | 302 | 45 |
| W2GD | 289 | 40 |
| W9RE | 282 | 40 |
| W2RQ | 278 | ?? |
| N6TR | 337 | 40 |

LETTERS TO THE EDITOR

Dear Kip,

At the September NCCC Board meeting, we discussed what the Contest Club might look like if we could shape it any way we wanted. I volunteered to write this letter to share with readers of the Jug some of the changes that I personally would like to see. My objective in tossing out these ideas is to stimulate thought and, hopefully, to open a dialogue among NCCC'ers who also might want to change the future direction of the club. The NCCC has done well these past fifteen years, and there is no reason to change the club's format unless we have a clear consensus that there still is something better to be had.

I believe there is something better, and it will come from a return to the smaller, more intimate membership that characterized the NCCC's first few years of existence. In those early years, we devoted a lot of time to analyzing the art of contesting and we spent a lot of time getting to know each other as good friends. In the late 70's and early 80's, we expanded the club from about 50 to 200 members to ensure that we'd be competitive in the Sweepstakes. Scores became more important to us than the people who generated them. We succeeded in achieving our SS goal, but the price of that expansion was the loss of membership camaraderie and personal identification with the club.

I think it's time now to concentrate upon the quality of our association with each other rather than upon just generating large aggregate scores. The club must give something worthwhile to the individual member in exchange for his or her participation. Things I consider worthwhile include intellectual stimulation, competitive challenges, an innovative environment, enjoyable social interaction and just plain fun. The present structure of the NCCC is too large and too impersonal to deliver most of these things.

My idealized NCCC, then, would be a club of from 50 to 75 members. Membership would be open to anyone having a genuine interest in contesting, but it would not be easy to join. A prospective member would have to have an established record of contest participation and achievement. Further, a prospective member would have to attend meetings and other club functions for a minimum of one year before he or she even could be nominated for membership. Once in, each member would have to demonstrate an ongoing commitment through participation in club activities and contests to retain his or her membership.

My idealized NCCC probably would meet every month or so, but its meetings would take a variety of forms. There would be a lot of "social" type get-togethers such as picnics, pool parties and barbecues where we could spend time really

getting to know each other. There would be educational meetings where, for instance, we discussed things like antenna design, station layout and how to run rate. And there would be meetings where we plotted our group contest plans and conceived new things to do (such as establishing a packet spotting network, planning contest DXpeditions or creating an "Armadillo Run").

What's true for me right now is that it's not particularly fun to be an NCCC member. I think a smaller, more selective and more interactive club might change this. We probably will be accused of being elitist, but I'd rather see the club provide something of value to a smaller membership than nothing of value to a larger one.

How do we get from here to there? For starters, I propose that we don't make much effort to entice present members to renew. Rather, let the ones who want to stay associated with the club take the initiative to renew and let the others drop by the wayside. We should impose a requirement that each member must attend a minimum of two meetings (so as to comply with the new ARRL club competition rules) and must expend enough effort on the club to satisfy some minimum activity level which the Board should predetermine and publicize. We should freeze temporarily new membership applications until we see how the present membership shakes out and until we have agreed upon what will constitute the minimum criteria needed to join.

73, Rusty, W6OAT

PICNIC POSTSCRIPT

It was an afternoon of fun and friends, lots of food and lots more to drink.

NCCC would like to express its sincere gratitude to these fine folks who helped with the August 29th Club picnic: Marlise Cook (Mrs. AI6V), who provided the dessert and supervised the kitchen; Salie Rueter, who also helped in the kitchen; Louese, KA6ING, for contributing the salad; Peggy Frazier (Mrs. K6ZM), for cooking the chili; Bob, VE2AQS/AC6, for taking care of the garlic bread; Rich, N6KT, and Carl, AI6V, for helping set up the morning of the picnic; Ron, NV6Z, for bringing all the folding chairs; and Chuck, W7MAP, for collecting the dinner dues.

Thanks to all for your help!

73, Gary, WA6VEF

CQP '87 -- THE LATEST WORD

Get ready to run 'em, because we're only two weeks away from the 1987 edition of the California QSO Party!!

By all indications, this year's contest should be the best one ever. No fewer than 71 NCCC'ers have indicated that they'll be active during the weekend -- and 18 of those are planning CQP county expeditions. Expect lots of participation from Southern California as well, as the SCCC will be out in force in support of the CQP effort. And, personal invitations to operate in this year's Party have gone out to some 250 members of the Northern and Southern California DX Clubs. The bottom line is that the amateur bands should explode with W6s at 1600Z on October 3!!

As of this writing (September 15), I've confirmed activity from 53 of California's 58 counties. Counties not spoken for at this time include Del Norte, Shasta, Lassen, Monterey, and, believe it or not, San Luis Obispo. I'm still awaiting word of operation from most of these counties, however, so it's likely that all 58 will be on for the test.

Our massive contest publicity campaign, in which we have individually reached some 2,000 potential CQP participants, should result in some rather large pile-ups, especially at the beginning of the test. We're indebted to several publications and organizations for providing mailing lists to us, among them the NCJ, the SCCC, the NCDXC, the SCDXC, the organizers of the Pennsylvania QSO Party, and the ARRL. A special mention should go to Ron, NV6Z, who generated a special mailing list of about 350 1986 CQP participants who made at least 25 QSO's but did not submit a log.

A few operating reminders -- be sure to hit the CW sub bands on the half hour. If W6s show up en masse at the published half hour times, it will generate more out-of-state activity, which will in turn result in CA stations staying on CW for longer time periods. Don't forget that CW QSO's are worth three points, while phone Q's count two. Also, sked times are important because you can make a lot of contacts in a short period of time. The sked time for 160M is 0500; 80M at 0700; 10M on the hour 1700-2000; and 147.54 MHz at 2000, 0000, and 0400.

We'd like to get preliminary scores, for publication in the JUG, right after the CQP ends, so please check in on 147.84/24 or 3815 KHz with your numbers.

In sum, everything is pointing toward a very successful Cal QSO Party. CQP Co-Chairman Duane, W6REC, and his Area Coordinators have done a Herculean job of organizing NCCC activity for the test. The fruits of their labors appear elsewhere in this issue of the JUG. Also in this month's JUG are a master log and summary sheet for you to use for the CQP.

CU at the meeting, and hope to work you on October 3rd and 4th!!

73, Gary, WA6VEF

CALIFORNIA COUNTIES AND THEIR ABBREVIATIONS

| | | | | | |
|--------------|-------|-----------------|-------|---------------|-------|
| Alameda | Ala | Marin | Marin | San Mateo | SMat |
| Alpine | Alp | Mariposa | Marip | Santa Barbara | SBar |
| Amador | Ama | Mendocino | Mend | Santa Clara | SCla |
| Butte | Butte | Merced | Mer | Santa Cruz | SCruz |
| Calaveras | Cala | Modoc | Modoc | Shasta | Shas |
| Colusa | Col | Mono | Mono | Sierra | Sie |
| Contra Costa | CCos | Monterey | Mont | Siskiyou | Sisk |
| Del Norte | DelN | Napa | Napa | Solano | Sol |
| El Dorado | ELD | Nevada | Nev | Sonoma | Son |
| Fresno | Fres | Orange | Org | Stanislaus | Stan |
| Glenn | Glenn | Placer | Pla | Sutter | Sut |
| Humboldt | Humb | Plumas | Plu | Tehama | Teh |
| Imperial | Imp | Riverside | Riv | Trinity | Trin |
| Inyo | Inyo | Sacramento | Sac | Tulare | Tul |
| Kern | Kern | San Benito | SBen | Tuolumne | Tuol |
| Kings | Kings | San Bernardino | SBer | Ventura | Vent |
| Lake | Lake | San Diego | SDgo | Yolo | Yolo |
| Lassen | Las | San Francisco | SF | Yuba | Yuba |
| Los Angeles | LA | San Joaquin | SJoa | | |
| Madera | Mad | San Luis Obispo | SLO | | |

SEPTEMBER DINNER MEETING

This month's NCCC meeting will be a dinner meeting at Miguel's, 22865 Atherton Street, Hayward. The festivities begin with a no-host bar at 7:00 p.m., with dinner at 8:00 p.m. No one can complain about the choice of entree, since Miguel's has graciously offered to permit us to order off the menu. The program will be WA6VEF on the California QSO Party. Please RSVP to KA6ING on the repeater or W6RGG no later than September 22, 1987.

ITEMS OF INTEREST

-- VP5 will again be well represented in the CQ Worldwide this fall. K6ANP, WW6F, KK6X and W6OSP are off to Provo to operate in the CQ Worldwide CW weekend, multi-single, signing VP5W. Be sure to listen for them and give them a call.

-- The National Contest Journal has long been a "must" for any serious contester. Publication of the NCJ was recently assumed by the ARRL and the appearance and content of the first issue since the change were much improved. The NCJ is now available at all Ham Radio Outlet locations.

CQP 1987: PRESENTING THE NCCC ACTIVITY ROSTER

Marin County and North Report de Doug, WW6D

W6FSJ -- Look for Wendell to be on full bore from Napa County.

W6OSP -- Bruce also plans activity from Napa.

KK6X -- Jim will be joined by KM6N for an all-out expedition to Mendocino County.

K6LRN -- Dick is gunning for a new single-op Marin County record.

Sonoma County -- Sonoma will be well represented with CQP activity by Lyle, WW6F; John, N6QC (operating multi-single from WB6EGE); and Doug, WW6D.

SF and Upper SCV Report de Dick, K6LRN

K4TKM -- Brook plans to be active from San Francisco County.

N6BV -- Dean intends to try out the new stacked yagis on 40 meters with an all-out KB effort from N6RO in Contra Costa County.

W6SZN -- Kip will be joined by Lou, K6TMB, for a 2-man, 2-xmtr expedition to Placer County.

K6MO -- Stan plans a maritime mobile operation, covering the 4 major counties in the San Francisco Bay, with help from N6KG.

San Mateo County -- John, K6BR, plans radio activity, as does Larry, W6KZJ.

Middle SCV Report de Tim, NU6S

N6BIS -- Patty will be on mobile from Madera County.

N6BT -- Tom will be hosting hired gun WA6VEF.

W6OAT -- The perennial guest operator comes home; boasting a new tower and antenna system, Rusty intends to try the Cal QSO Party from his home in San Carlos.

N6OM -- John will be on either from Calaveras County or Santa Clara County.

K4UVT -- Bob is going to try to be on from Tahiti, where he'll be vacationing.

Santa Clara County -- Rare and unpopulated Santa Clara County will be ably represented by Jack, W6ISQ, Stan, K6MA, Ron, WA6ITV, Ed, AJ6V, and Fred, K6YT.

Lower SCV and South Report de Ron, NV6Z

N1EE/6 -- Scott returns to Sierra County for a single-op effort.

W6CF -- Jim will be operating from home in Santa Cruz County.

KI6EZ -- Listen for George's portable signal from Tulare County.

N6TU, N6RZ, and WA6OCV -- Rumor has it that Bruce, Dave, and Susan are gearing up for a big multi-multi from Santa Cruz County.

AA6T and NS6G -- Lloyd and Karen will be expeditioning to Tehama County.

K6XN -- Ted plans activity from Santa Clara County.

AG6D -- Al will also be a part of the Santa Clara County CQP contingent.

K6PU -- Ken intends to activate Amador County.

N6ZB -- Another of this year's CQP county expeditions, Bob, along with Jim, KS6H, will be journeying to Merced County for a full bore multi-multi effort.

K6XO -- Al, our mobile specialist, will ensure that Glenn, Colusa, Sutter, Mariposa, and Stanislaus Counties are all on for the CQP.

Lower East Bay Report de Mike, WE6G

County Expeditions -- Mac, W6BSY, plans to activate Yuba County, while K7PXX will be mobile in Alpine County on Sunday of the test.

Alameda County Activity -- Expect CQP participation from Bob, W6RGG, Bill, K6SIK, Chuck, AA6G, Steve, WV6U, Larry, WA0YQM/6, and, if their rigs are repaired in time, Don, N6DA, and Will, WA6JCZ.

Upper East Bay Report de Mike, K6MBV

K6CSL, N6EK, WR6R (multi-single with WZ6Z), and W6MFZ all will be on the air from Alameda County.

WI6Y and WB6MZQ will be on from Contra Costa County.

Eastern East Bay Report de Gary, WA6VEF

N6VV, K6XV, and K6PJY -- Lew, Bob and Dan are planning a multi-multi effort from the Toulumne/Mono/Alpine tri-county line. Word is that they're taking towers and monobanders with them.

K6HIH -- Cliff is representing Solano County in this year's Party.

The Contra Cost Contingent -- K6ZM, NB6L, VE2AQS/W6, and NP4IW/W6 will be active from Contra Costa County.

K6RK -- Look for Chuck to again be operating from Calaveras County.

Sacramento Valley Report de George, K6SG

K3EST/6 -- Bob will be on from home in Yolo County.

K6SG, KV6H, KF6A, and other members of the River City Contesters group are attempting to get permission to return to the site they operated from last year in Colusa County. If unsuccessful, they intend to activate El Dorado for the '87 CQP.

AI6V -- Other commitments will limit Carl's Nevada County operating time this year.

SJV Report de Duane, W6REC

W7MAP/6 -- Chuck plans to operate from San Joaquin County.

W6REC -- Duane will be on from his mountain retreat in Modoc County.

NC7K -- Tim is going to try the CQP from the home QTH in Reno, Nevada.

WC6H -- Rich's station will be operated by Alex, KI6EZ.

N6GG -- Rich plans to be active from Amador County.

CALLSIGN _____

STATE/PROV/COUNTY _____

| BAND MHz | TIME UTC | STATION | SENT | RECEIVED | | | POINTS |
|-------------|-------------|---------|-------------------------------|----------|-----------|------|--------|
| | | | NR + <input type="checkbox"/> | NR | STATE/CTY | MULT | |
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CALIFORNIA QSO PARTY
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CALIFORNIA QSO PARTY
CALIFORNIA QSO PARTY

Sponsored by THE NORTHERN CALIFORNIA CONTEST CLUB

CALL SIGN *****

STATE *****
OR *****
COUNTY *****

| BAND | CW | QSOs | PHONE |
|------------------|-------|-------|-------|
| VHF | ***** | ***** | ***** |
| 10 | ***** | ***** | ***** |
| 15 | ***** | ***** | ***** |
| 20 | ***** | ***** | ***** |
| 40 | ***** | ***** | ***** |
| 80 | ***** | ***** | ***** |
| 160 | ***** | ***** | ***** |
| TOTAL QSOs | ***** | ***** | ***** |
| TOTAL QSO POINTS | ***** | ***** | ***** |

x 3= x 2= X

CLASS *****

____ SINGLE OPERATOR

____ MULTI-SINGLE

____ MULTI-MULTI

____ SINGLE-OP COUNTY EXPEDITION

____ MULTI-OP COUNTY EXPEDITION

____ SINGLE- or MULTI-OP MOBILE

OPERATOR(S): _____

POWER LEVEL: _____

CLUB COMPETITION: _____

| | | |
|------------------|--|-------------|
| TOTAL MULTIPLIER | | FINAL SCORE |
| ***** | | ***** |
| ***** | | ***** |
| ***** | | ***** |
| ***** | | ***** |
| ***** | | ***** |

MAILING ADDRESS

NAME _____

ADDRESS _____

CITY, STATE/
PROVINCE _____

ZIP _____

TEL. # _____

"I have observed all competition rules as well as all regulations established for amateur radio in my country. My report is correct and true to the best of my knowledge. I agree to be bound by the decisions of the Contest Committee."

Thanks to Howard, WZ6Z for providing the following:

BREAKDOWN FOR THE PETER I DX EXPEDITION 1987

Compiled by LA2GV

SUMMARY

| | QSO's | SSB | CW | RTTY | COUNTRIES WKD |
|-------|--------|--------|-------|------|---------------|
| 3Y1EE | 9.486 | | | | 97 |
| 3Y2GV | 6.355 | | | | 92 |
| TOTAL | 15.841 | 10.090 | 5.703 | 48 | 112 |

Band by band pr call

| | 3Y1EE | 3Y2GV | TOTAL |
|-------|-------|-------|--------|
| 10 | 116 | 43 | 159 |
| 15 | 3.668 | 902 | 4.570 |
| 20 | 4.001 | 5.306 | 9.307 |
| 40 | 1.114 | 75 | 1.189 |
| 80 | 587 | 29 | 587 |
| 160 | | | 29 |
| TOTAL | 9.486 | 6.355 | 15.841 |

USA pr call areas

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | Total |
|-------|-----|-----|-----|-------|-------|-------|-----|-----|-----|-----|-------|
| 3Y1EE | 383 | 326 | 175 | 751 | 381 | 560 | 222 | 331 | 358 | 232 | 5.503 |
| 3Y2GV | 215 | 602 | 322 | 1.076 | 625 | 968 | 323 | 392 | 500 | 312 | 3.551 |
| TOTAL | 598 | 928 | 497 | 1.827 | 1.006 | 1.528 | 545 | 723 | 858 | 544 | 9.054 |

EUROPE

| | EU | LA | SM | OH | OZ | TOTAL |
|-------|-------|-----|-----|-----|----|-------|
| 3Y1EE | 1.077 | 163 | 176 | 248 | 51 | 1.715 |
| 3Y2GV | 753 | 84 | 71 | 84 | 29 | 1.021 |
| TOTAL | 1.830 | 247 | 247 | 332 | 80 | 2.736 |

OTHER

| | VE | ZL | VK | AF | JA | ASIA - JA | PAC | LATIN SOUTH AM | OTHER | TOTAL |
|-------|-----|-----|----|----|-------|--------------|-----|----------------------|-------|-------|
| 3Y1EE | 207 | 45 | 12 | 39 | 1.441 | 11 | 20 | 443 | 50 | 2.268 |
| 3Y2GV | 105 | 88 | 84 | 50 | 864 | 54 | 29 | 474 | 35 | 1.783 |
| TOTAL | 312 | 133 | 96 | 89 | 2.305 | 65 | 49 | 917 | 85 | 4.051 |

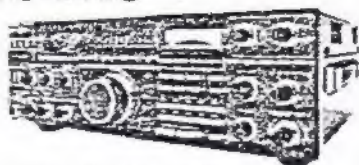
| | |
|----------------|--------|
| USA | 57.1 % |
| EU | 17.2 % |
| JA | 14.5 % |
| Lat + South AM | 5.7 % |
| Other | 5.5 % |

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